

CLAIMS

This list of claims will replace all prior versions and lists of claims in the application.

1. (Previously Presented) An incoming message alarming system, comprising:
 - a wireless communication system to transmit an incoming message to a called mobile communication terminal, and to transmit a first notification message including an identification of a calling mobile communication terminal; and
 - a messenger service system to receive the first notification message from the wireless communication system and to send a second notification message to a personal computer, the second notification message to provide notification that the called mobile communication terminal is receiving the incoming message,
 - wherein the incoming message comprises voice communications or data communications.
2. (Previously Presented) The incoming message alarming system of claim 1, wherein the wireless communication system comprises:
 - a base station to receive the incoming message;
 - a mobile switching center to transmit the first notification message to the messenger service system; and
 - a home location register to store location information of a called subscriber corresponding to the called mobile communication terminal, subscriber information representing whether the called subscriber is an incoming message alarming service subscriber, and flag information indicating an activation state of the incoming message alarming service.
3. (Canceled)

4. (Previously Presented) The incoming message alarming system of claim 23, wherein the messenger server stores use information on whether to use an incoming message alarming service in the messenger information database.

5. (Previously Presented) The incoming message alarming system of claim 4, wherein flag information stored in the wireless communication system and indicating an activation state of the incoming message alarming service is updated by the use information.

6. (Previously Presented) The incoming message alarming system of claim 5, wherein the messenger server transmits the second notification message to the personal computer when the incoming message alarming service is activated.

7. (Previously Presented) The incoming message alarming system of claim 5, wherein the messenger server stores the second notification message when the incoming message alarming system is not activated.

8. (Previously Presented) A wireless communication system, comprising:
a base station to receive an incoming message from a calling mobile communication terminal; and
a mobile switching center to receive the incoming message from the base station, to transmit the incoming message to a called mobile communication terminal, and to transmit a first notification message to a messenger service system,

wherein the messenger service system sends a second notification message to a personal computer, the second notification message to provide notification that the called mobile communication terminal is receiving the incoming message.

9. (Previously Presented) The wireless communication system of claim 8, wherein information in the first notification message or the second notification message comprises an identification of the called mobile communication terminal and an identification of the calling mobile communication terminal.

10. (Previously Presented) The wireless communication system of claim 8, wherein the mobile switching center stores the first notification message.

11. (Previously Presented) A messenger service system, comprising:

- a messenger information database to store an IP address and a messenger ID of a called subscriber; and
- a messenger server to send a second notification message to a personal computer corresponding to the IP address,

wherein the second notification message provides notification that a called mobile communication terminal of the called subscriber is receiving an incoming message transmitted to a wireless communication system, and

wherein the wireless communication system comprises:

- a base station to receive the incoming message from a calling mobile communication terminal; and
- a mobile switching center to receive the incoming message from the base station and to transmit a first notification message to the messenger service system.

12. (Previously Presented) The messenger service system of claim 11, wherein the second notification message is transmitted through the internet to the personal computer.

13. (Previously Presented) The messenger service system of claim 11, wherein the messenger server stores the second notification message.

14. (Previously presented) The messenger service system of claim 11, wherein information in the second notification message comprises an identification of the called mobile communication terminal and an identification of the calling mobile communication terminal.

15 - 17. (Canceled).

18. (Previously Presented) A method for alarming an incoming message of a mobile communication terminal, comprising:

transmitting a first notification message including an identification of a called mobile communication terminal from a wireless communication system;

determining an IP address corresponding to the identification of the called mobile communication terminal; and

providing notification to a personal computer corresponding to the IP address that the called mobile communication terminal is receiving the incoming message.

19. (Previously Presented) The method of claim 18, wherein the step of transmitting a first notification message further comprises:

receiving the incoming message from a calling mobile communication terminal; and

determining an activation state of an incoming message alarming service.

20. (Previously Presented) The method of claim 18, wherein the step of providing comprises:

determining if a called subscriber has logged in to an incoming messenger alarming service on the personal computer;
transmitting a second notification message to the personal computer; and
displaying on the personal computer an incoming message alarming window indicating that the called mobile communication terminal is receiving the incoming message.

21. (Previously Presented) The method of claim 19, wherein the step of transmitting a first notification message further comprises:

storing the first notification message.

22. (Previously Presented) The method of claim 20, wherein the step of transmitting a second notification message further comprises:

storing the second notification message.

23. (Previously Presented) The incoming message alarming system of claim 1, wherein the messenger service system comprises:

a messenger information database to store an IP address and a messenger ID of a called subscriber corresponding to the called mobile communication terminal; and
a messenger server to receive the first notification message from the wireless communication system and to send the second notification message,
wherein the personal computer corresponds to the IP address.

24. (Previously Presented) The messenger service system of claim 11, wherein the messenger server includes the messenger information database.

25. (Previously Presented) The wireless communication system of claim 9, wherein the first notification message or the second notification message further comprises a data message.

26. (Previously Presented) The messenger service system of claim 14, wherein the second notification message further comprises a data message.